

Indo-US STEM Program



(Benefits of Studying in the US)

Dr. Taqseer Khan

Assistant Professor

Department of Mathematics, Jamia Millia Islamia, New Delhi

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(Formerly the Obama-Singh 21st Century Knowledge Initiative)

The Ohio State University, USA

The Aligarh Muslim University, India

Introduction

- B.Sc. (Hons.), Aligarh Muslim University (Topper)
- M.Sc., Aligarh Muslim University (Topper)
- M.S., The Central European University (CEU), Hungary, on an American Fellowship, one of the seven recipients out of around 4000 applicants from more than 100 countries, 2009.
- PhD, Aligarh Muslim University, India; Ohio State University, USA, 2017.
- Alumnus of the Indo-US STEM program 2016.

➤ While pursuing PhD at AMU, Aligarh, I was very fortunate to get an opportunity to carry out part of my research in the USA through the prestigious Indo-US STEM program initiated and led by Prof. Anil K. Pradhan and Prof. Sultana S. Nahar from the Ohio State University (OSU).



Research work carried out at OSU

- While working at OSU under the supervision of Prof. Jan Lang, I worked on an important concept in Mathematics called "s-numbers".
- In a shorter span of time I was able to work out good results for the Volterra operator.
- The work has been published in the prestigious American journal "*Proceedings of the American Mathematical Society*" (PAMS). The PAMS is one of the most reputed journals of Mathematics which publishes only creative and innovative ideas in Mathematics.
- Before returning to India, I presented this work in an open seminar at the Department of Mathematics, The Ohio State University on December 28, 2016.



Harvard University visit

- During my stay at the OSU, there was a conference during Nov. 18-20, 2016 at the Dept of Mathematics, the Harvard University, Boston.
- I wanted to participate in this conference to present my work carried out at the OSU. I applied for the grant with the recommendation of my US PhD guide Prof. Jan Lang.
- At Harvard I met renowned Mathematicians from various countries and interacted with them. I got very enlightening ideas in subject from them. I have established good relations with them and I often have research discussions with them. They are good contacts for my research.



Benefits of studying in USA

**Worldwide
Recognition**

Global Tie Ups

Infrastructure

**International
Contacts**

World Class Faculty

Technology

**Well Rounded
Personality**

Benefits of studying in USA

➤ **Worldwide recognition:**

- According to the latest reports by various highly acclaimed ranking agencies such as the **QS World**, USA has emerged as a leading country known for its quality education.
- A lot of international students pick USA because of its strong reputation in education. With more than 4000 universities across the country, the US higher education system is always held in high esteem exerting a powerful influence on the rest of the world.
- Thus gaining a US degree or certificate is an extremely impressive accomplishment which is well accredited with organizations, professional bodies and with the industry.

Benefits of studying in USA

➤ **World class faculty:**

- Skilled faculty members are very important for guiding students in their chosen fields of interest.
- Most professors in the US universities are well trained and have a strong background of academic and research and years of experience.
- The professors enjoy introducing new approaches to teaching and research methodologies and always encourage their students to bring out their best. The interactions are both formal and informal, over coffee or lunches, thus allowing students to form a great bond with their professors and more often they become great mentors to their students.

Benefits of studying in USA

➤ **Global tie-ups:**

Most universities have international collaborations. They offer immense exposure to students through their global tie-ups and exchange program establishing a platform to learn more.

➤ **Infrastructure:**

The campuses of the US universities are not only beautiful open surroundings but also have an extremely alluring infrastructure. Each campus offers state-of-the-art infrastructure that has facilities such as libraries that host rare collections, well-funded students' clubs, well furnished accommodations, health facilities, career & sports centres, office for international students and many more.

Benefits of studying in USA

➤ **International contacts:**

- Since US Education is very popular among all international students, staying on campus helps students in making new friends from all over the world, learn a lot about other cultures and communities and enrich their experiences.
- For many international students, living in a dormitory with other university students gives them an opportunity to meet new people from different backgrounds and make lifelong bonds. When you return home with US qualifications, you boast of your international links.

Benefits of studying in USA

➤ **Technology:**

The US universities take pride on being at the forefront of technology and educational techniques, and in making available to their students the best possible equipments and resources. Regardless of what degree a student chooses to pursue, he/she gets immense exposure to the newest and modern technology, which serves as an impressive building block in the overall learning experience.

➤ **Well-rounded personality :**

Studying in the United States doesn't only give you degrees, it is also an experience that helps you grow as a person on your own. The education system in US encourages holistic development of the students. Prime focus is on the prolific development of the students through practical exposure and application based academics. the US provides both a conducive and challenging environment, that makes a student much stronger individual and an extremely independent person. The exposure to the US, one of the most culturally diverse and inclusive societies in the world, along with its vibrant college campuses, is seldom replicated in other countries. The astonishing and intimidating diversity makes students highly adaptable and aware, a few personality traits that later become a major asset in one's life.



Visit to The Niagra Falls, Ontario, US-Canada Border



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Thank You !

INDO-U.S. CENTRE OF EXCELLENCE IN STEM-ER IS ESTABLISHED



Craig Dicker, Sultana Nahar and Anil Pradhan